What Is Claimed Is

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- 2 1. A reclining apparatus for use between a post and a seat of a chair, the
- 3 reclining apparatus comprising a first joint for attachment to the post,
- a second joint pivotally connected with the first joint for supporting
- 5 the seat and a locking device for locking the second joint in one of
- 6 several reclined positions relative to the casing.
- 7 . 2. The reclining apparatus according to claim 1 wherein the locking
- 8 device includes:
- 9 a rod connected with the second joint and movable on the first
- joint, the rod defines several dents; and
- a latch movable on the first joint between a releasing position
- where the latch is away from the rod and a locking position where
- the latch is in one of the dents so as to lock the seat in one of the
- several reclined positions relative to the post.
- 15 3. The reclining apparatus according to claim 2 wherein the rod and the
- latch are movable in transverse directions.
- 17 4. The reclining apparatus according to claim 2 wherein the locking
 - device includes a mount installed on the first joint, and the rod is
 - movably installed on the mount.
 - 20 5. The reclining apparatus according to claim 2 wherein the locking
 - device includes a handle for maneuvering the latch.
 - 22 6. The reclining apparatus according to claim 5 wherein the locking
 - device includes a linkage connected between the latch and the
 - 24 handle.
 - 25 7. The reclining apparatus according to claim 6 wherein the linkage
 - includes a shaft connected with the latch, and the handle extends

- transversely from the shaft.
- 2 8. The reclining apparatus according to claim 7 wherein the linkage
- includes a V-shaped lever pivotal on the first joint, and the V-shaped
- 4 lever includes a first end linked to the latch and a second end linked
- 5 to the shaft.
- 6 9. The reclining apparatus according to claim 8 wherein the linkage
- 7 includes a link connected between the shaft and the second end of
- 8 the V-shaped lever.
- 9 10. The reclining apparatus according to claim 1 including a pin for
- pivotally connecting the second joint with the first joint.
- 11 11. The reclining apparatus according to claim 2 including a pin
- connected between the second joint and the rod.
- 13. 12. The reclining apparatus according to claim 11 wherein the first joint
- defines two arched slots for receiving two ends of the pin.
- 15 13. The reclining apparatus according to claim 1 including a tuning
- device for tuning the reclined positions of the second joint.
- 17 14. The reclining apparatus according to claim 13 wherein the tuning
- device includes at least one spring connected with the second joint, a
- screw connected with the spring and non-rotationally installed on the
- 20 first joint and a nut engaged with the screw and rotationally installed
- on the first joint so that screwing of the nut on the screw causes the
- pivotal of the second joint relative to the first joint.
- 23 15. The reclining apparatus according to claim 14 wherein the tuning
- device includes a worm rotationally installed on the first joint, and
- 25 the nut is a nut/gear engaged with the screw internally and engaged
- with the worm externally.

- 1 16. The reclining apparatus according to claim 15 wherein the tuning
- device includes a crank extending transversely from the worm.
- 3 17. The reclining apparatus according to claim 1 wherein the post is a
- 4 hydraulic cylinder.
- 5 18. The reclining apparatus according to claim 17 including a lifting
- 6 device for controlling the hydraulic cylinder.
- 7 19. The reclining apparatus according to claim 18 wherein the lifting
- device includes a lever pivotally installed on the first joint, and the
- lever includes a first end for contact with the hydraulic cylinder and
- a second end to be maneuvered.
- 11 20. The reclining apparatus according to claim 19 wherein the lifting
- device includes a shaft rotationally installed on the lateral walls of
- the casing and connected with the second end of the lever.